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ABSTRACT OF THE DISCLOSURE

An apparatus for producing and storing electrical energy includes a conventional bicycle having a plurality of gear ratios and a generator that includes a drive roller on a shaft that is in frictional engagement with an outer circumference of a rear tire of the bicycle. The bicycle is adapted for stationary use with a stand or independent use without the stand and is capable of producing electricity in either case. The generator charges a battery that may be transported with the bicycle. An inverter converts DC into AC. A mass is optionally added to a bicycle crank or wheel to smooth out the pedaling process. A pivoting modified stand is described.